

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please cancel claims 21 and 24 without prejudice.

1. (Currently amended) A fluid spraying nozzle comprising:
an outer conduit; and
an inner conduit positioned within at least a portion of the outer conduit such that a gap is formed between the outer conduit and the inner conduit;
wherein a back portion of the outer conduit is coupled to a pressurized gas supply source,
wherein a back portion of the inner conduit is coupled with a fluid supply source, the fluid supply source being configured to supply a non-pressurized fluid, the fluid comprising a liquid, a solid, or a mixture of a liquid and a solid, and wherein a front portion of the inner conduit is configured to allow ejection of the fluid during use,
wherein the inner conduit and the outer conduit are composed of a flexible material, and wherein the front portion of the inner conduit and the front portion of the outer conduit move when gas is ejected from the outer conduit, and wherein the fluid is pulled from the fluid supply source through the inner conduit when gas is ejected from the outer conduit such that the fluid is mixed with the ejected gas,
wherein the nozzle further comprises a regulating member positioned proximate to the outer conduit, and an annular whisk coupled to an opening end of the regulating member.
2. (Original) The fluid spraying nozzle of claim 1, further comprising a balancing member coupled to the outer conduit, wherein the balancing member is configured to control movement of the front portion of the outer conduit and the front portion of the inner conduit during use.

3. (Original) The fluid spraying nozzle of claim 1, further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use.
4. (Original) The fluid spraying nozzle of claim 1, wherein the outer conduit and the inner conduit are composed of a flexible synthetic resin.
5. (Original) The fluid spraying nozzle of claim 1, wherein the gas is compressed air, and wherein the pressurized gas supply source comprises a compressor.
6. (Original) The fluid spraying nozzle of claim 1, wherein fluid supply source is configured to supply a cleaning liquid.
7. (Original) The fluid spraying nozzle of claim 1, wherein fluid supply source is configured to supply abrasive particles.
8. (Original) The fluid spraying nozzle of claim 1, wherein fluid supply source is configured to supply a mixture of a liquid and abrasive particles.
9. (Original) The fluid spraying nozzle of claim 1, further comprising a plurality of balancing members coupled to the outer conduit.
10. (Original) The fluid spraying nozzle of claim 1, further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit

during use, wherein the regulating member is in a substantially conical shape and substantially surrounds the front portion of the outer conduit and the front portion of the inner conduit.

11. (Currently amended) The fluid spraying nozzle of claim 1, ~~further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use, wherein the regulating member is in a substantially conical shape and substantially surrounds the front portion of the outer conduit and the front portion of the inner conduit, and wherein an annular whisk is coupled to an opening end of the regulating member.~~

12. (Original) The fluid spraying nozzle of claim 1, further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use, wherein the regulating member is an annular member that surrounds a portion of the outer conduit.

13. (Currently amended) A fluid spraying apparatus comprising:

a body;

a nozzle disposed in the body, the nozzle comprising an outer conduit and an inner conduit positioned within at least a portion of the outer conduit such that a gap is formed between the outer conduit and the inner conduit;

a pressurized gas supply source coupled to the outer conduit; and

a fluid supply source coupled to the inner conduit, the fluid supply source being configured to supply a non-pressurized fluid, the fluid comprising a liquid, a solid, or a mixture of a liquid and a solid, wherein the fluid supply source comprises a fluid container that is removably attached to the body;

wherein a back portion of the outer conduit is coupled to the pressurized gas supply source,

wherein a back portion of the inner conduit is coupled to the fluid supply source, and wherein a front portion of the inner conduit is configured to allow ejection of the fluid during use,

wherein the inner conduit and the outer conduit are composed of a flexible material, and wherein the front portion of the inner conduit and the front portion of the outer conduit move within the body when gas from the pressurized gas supply source is ejected from the outer conduit, and wherein the fluid is pulled from the fluid supply source through the inner conduit when gas is ejected from the outer conduit such that the fluid is mixed with the ejected gas.

14. (Original) The fluid spraying apparatus of claim 13, further comprising a balancing member coupled to the outer conduit, wherein the balancing member is configured to control movement of the front portion of the outer conduit and the front portion of the inner conduit during use.

15. (Original) The fluid spraying apparatus of claim 13, further comprising a regulating member coupled to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use.

16. (Original) The fluid spraying apparatus of claim 13, wherein the pressurized gas source comprises a compressed air source.

17. (Original) The fluid spraying apparatus of claim 13, further comprising a valve coupled to the fluid supply source and the inner conduit, wherein the valve is configured to control movement of the fluid from the fluid supply source to the inner conduit.

18. (Original) The fluid spraying apparatus of claim 13, wherein the pressurized gas supply

comprises an aerosol gas.

19. (Original) The fluid spraying apparatus of claim 13, wherein the fluid comprises a cleaning liquid.

20. (Original) The fluid spraying apparatus of claim 13, wherein the fluid supply source is removably coupled to the body.

21. (Cancelled)

22. (Currently amended) A method of applying a fluid to a surface comprising:

providing a fluid spraying apparatus, the fluid spraying apparatus comprising:

a body;

a nozzle disposed in the body, the nozzle comprising an outer conduit and an inner conduit positioned within at least a portion of the outer conduit such that a gas flow path is formed between the outer conduit and the inner conduit;

a pressurized gas supply source coupled to the outer conduit; and

a fluid supply source coupled to the inner conduit, the fluid supply source being configured to supply a non-pressurized fluid, the fluid comprising a liquid, a solid, or a mixture of a liquid and a solid; and

passing gas through the outer conduit, wherein passage of gas through the outer conduit pulls fluid from the fluid supply source through and out of the inner conduit; and wherein the front portion of the inner conduit and the front portion of the outer conduit move within the body when gas from the pressurized gas supply source passes through

the outer conduit; and

directing the fluid passing out of the inner conduit toward the surface.

23. (Original) The method of claim 22, wherein the surface comprises a vehicle surface.

Claims 24 – 26 (Cancelled)

27. (New) A fluid spraying apparatus comprising:

a body;

a nozzle disposed in the body, the nozzle comprising an outer conduit and an inner conduit positioned within at least a portion of the outer conduit such that a gas flow path is formed between the outer conduit and the inner conduit;

a pressurized gas supply source coupled to the outer conduit; and

a fluid supply source coupled to the inner conduit, the fluid supply source being configured to supply a non-pressurized fluid, the fluid comprising a liquid, a solid, or a mixture of a liquid and a solid, wherein the fluid supply source comprises a fluid container that is removably attached to the body;

wherein a back portion of the outer conduit is coupled to the pressurized gas supply source, wherein a back portion of the inner conduit is coupled to the fluid supply source,

wherein the front portion of the inner conduit is positioned in a negative pressure area that is formed in the outer conduit when gas is ejected from the second conduit during use, and

and wherein the front portion of the inner conduit and the front portion of the outer conduit move within the body when gas from the pressurized gas supply source is ejected from the outer conduit, and wherein the fluid is pulled from the fluid supply source through the inner conduit when gas is ejected from the outer conduit such that the fluid is mixed with the ejected gas.

28. (New) The fluid spraying apparatus of claim 27, further comprising a balancing member

coupled to the outer conduit, wherein the balancing member is configured to control movement of the front portion of the outer conduit and the front portion of the inner conduit during use.

29. (New) The fluid spraying apparatus of claim 27, further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use.

30. (New) The fluid spraying apparatus of claim 27, wherein the outer conduit and the inner conduit are composed of a flexible synthetic resin.

31. (New) The fluid spraying apparatus of claim 27, wherein the gas is compressed air, and wherein the pressurized gas supply source comprises a compressor.

32. (New) The fluid spraying apparatus of claim 27, wherein fluid supply source is configured to supply a cleaning liquid.

33. (New) The fluid spraying apparatus of claim 27, wherein fluid supply source is configured to supply abrasive particles.

34. (New) The fluid spraying apparatus of claim 27, wherein fluid supply source is configured to supply a mixture of a liquid and abrasive particles.

35. (New) The fluid spraying apparatus of claim 27, further comprising a plurality of balancing members coupled to the outer conduit.

36. (New) The fluid spraying apparatus of claim 27, further comprising a regulating member

positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use, wherein the regulating member is in a substantially conical shape and substantially surrounds the front portion of the outer conduit and the front portion of the inner conduit.

37. (New) The fluid spraying apparatus of claim 27, further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use, wherein the regulating member is in a substantially conical shape and substantially surrounds the front portion of the outer conduit and the front portion of the inner conduit, and wherein an annular whisk is coupled to an opening end of the regulating member.

38. (New) The fluid spraying apparatus of claim 27, further comprising a regulating member positioned proximate to the outer conduit, wherein the regulating member is configured to limit movement of the front portion of the outer conduit and the front portion of the inner conduit during use, wherein the regulating member is an annular member that surrounds a portion of the outer conduit.

39. (New) A method of cleaning a surface of a vehicle, comprising:

providing a fluid spraying apparatus, the fluid spraying apparatus comprising:

a body;

a nozzle disposed in the body, the nozzle comprising an outer conduit and an inner conduit positioned within at least a portion of the outer conduit such that a gas flow path is formed between the outer conduit and the inner conduit;

a pressurized gas supply source coupled to the outer conduit; and

a fluid supply source coupled to the inner conduit, the fluid supply source being configured to supply a non-pressurized fluid, the fluid comprising a liquid, a solid, or a mixture of a liquid and a solid, wherein the fluid supply source comprises a container that is removably attached to the body;

passing gas through the outer conduit, wherein passage of gas through the outer conduit pulls fluid from the fluid supply source through and out of the inner conduit; and wherein the front portion of the inner conduit and the front portion of the outer conduit move within the body when gas from the pressurized gas supply source passes through the outer conduit; and

directing the fluid passing out of the inner conduit toward the surface of the vehicle.

40. (New) The method of claim 39, wherein the vehicle is an automobile.
41. (New) The method of claim 39, further comprising removing the fluid supply source from the body, and refilling the fluid supply source.